IN THE CLAIMS:

1. **(Previously Presented)** A post-biopsy cavity treatment implant, comprising:

a first portion including a first porous matrix defining a first controlled pore architecture, and

a second portion coupled to the first portion, the second portion including a second porous matrix defining a second controlled pore architecture that is different from the first controlled pore architecture to cause the second portion to swell in a different manner than the first portion when the post-biopsy cavity treatment implant is implanted, at least one of the first and second portions including collagen and at least one of the first and second portions defining a closed internal reservoir configured to contain at least one of a dye, a pigment and a therapeutic agent.

2. **(Previously Presented)** The post-biopsy cavity treatment implant of claim 1, wherein the second portion swells faster than the first portion when the implant is implanted.

3. **(Previously Presented)** The post-biopsy cavity treatment implant of claim 1, wherein the second portion swells to a greater extent than the first portion when the implant is implanted.

4. **(Original)** The post-biopsy cavity treatment implant of claim 1, wherein the first controlled pore architecture differs from the second controlled pore architecture with respect to at least one of: pore density, pore shape, pore orientation and pore dimensions.

5. **(Original)** The post-biopsy cavity treatment implant of claim 1, wherein at least one of the first and second portions includes a radiopaque material disposed therein.

6. **(Original)** The post-biopsy cavity treatment implant of claim 1, wherein at least one of the first and second portions includes a radioactive material disposed therein.

7. **(Original)** The post-biopsy cavity treatment device of claim 1, wherein at least one of the first and second portions includes a paramagnetic material disposed therein.

8-9. **(Canceled)**

10. **(Original)** The post-biopsy cavity treatment implant of claim 1, wherein at least one of the first and second portions includes a contrast media disposed therein.

11. **(Canceled)**

12. **(Original)** The post-biopsy cavity treatment implant of claim 1, wherein at least one of the first and second portions is biodegradable.

13. **(Canceled)**

14. **(Original)** The post-biopsy cavity treatment implant of claim 1, wherein the first and second portions include at least one of a polylactide (PLA), a polyglycolide (PGA), a poly(lactide-co-glycolide) (PLGA), a polyglyconate, a polyanhydride, PEG, cellulose, a gelatin, a lipids, a polysaccharide, a starches and a polyorthoesters.

15. **(Original)** The post-biopsy cavity treatment implant of claim 1, wherein the first and second portions are configured so as to form a laminar structure.

16. **(Original)** The post-biopsy cavity treatment implant of claim 1, wherein the first portion defines a first surface and wherein the second portion defines a second surface that faces the first surface to define an interface between the first and second portions.

17. **(Previously Presented)** The post-biopsy cavity treatment implant of claim 16, wherein the interface is visualizable under ultrasound when the post-biopsy cavity treatment implant is implanted.

18. **(Original)** The post-biopsy cavity treatment implant of claim 1, wherein at least the first portion includes a plurality of fibers.

19. **(Original)** The post-biopsy cavity treatment implant of claim 1, wherein the first portion forms an inner core and wherein the second portion forms an outer shell disposed at least partially around the first portion.

20. **(Canceled)**

21. **(Previously Presented)** The post-biopsy cavity treatment implant of claim 1, wherein the internal reservoir is configured to deliver the at least one of dye, pigment and therapeutic agent through elution when the implant is implanted.

22. **(Previously Presented)** The post-biopsy cavity treatment implant of claim 1, wherein the internal reservoir is configured to deliver the at least one of dye, pigment and therapeutic agent at a first rate when the reservoir is breached and at a second rate that is lower than the first rate when the reservoir is not breached.

23. **(Original)** The post-biopsy cavity treatment implant of claim 1, further including a third portion, the third portion being radiopaque.

24. **(Original)** The post-biopsy cavity treatment implant of claim 23, wherein the third portion includes a metal.

25. **(Original)** The post-biopsy cavity treatment implant of claim 1, further including a third portion including a third porous matrix defining a third controlled pore architecture, the first, second and third portions collectively defining a predetermined pore density gradient.

26. **(Original)** The post-biopsy cavity treatment implant of claim 1, wherein the second portion is configured to have a second crosslinking density and wherein the first portion is configured to have a first crosslinking density that is greater than the second crosslinking density.

27. **(Previously Presented)** The post-biopsy cavity treatment implant of claim 26, wherein the second portion is configured to swell to a greater degree than the first portion when the implant is implanted.

28. **(Previously Presented)** The post-biopsy cavity treatment implant of claim 1, wherein a crosslinking density of at least one of the first and second portions is controlled through adding a selected amount of a bifunctional reagent to the collagen.

29. **(Original)** The post-biopsy cavity treatment implant of claim 28, wherein the bifunctional reagent includes at least one of a aldehyde and a cyanamide.

30. **(Original)** The post-biopsy cavity treatment implant of claim 29, wherein the aldehyde includes a glutaraldehyde.

31. **(Previously Presented)** The post-biopsy cavity treatment implant of claim 1, wherein a crosslinking density of the first and second portions is controlled by an application of energy to the collagen.

32. **(Original)** The post-biopsy cavity treatment implant of claim 31, wherein the application of energy includes at least one of dehydrothermal processing, exposure to UV light and radiation.

33. **(Previously Presented)** The post-biopsy cavity treatment implant of claim 1, wherein a crosslinking density of at least one of the first and second portions is controlled by a combination of dehydrothermal processing and exposure to cyanamide.

34-39. **(Canceled)**

40. **(Previously Presented)** A post-biopsy cavity treatment implant, comprising:

a first portion comprising a first collagenous matrix, the first collagenous matrix being controlled to have a first crosslinking density, and

a second portion in contact with the first portion, the second portion comprising a second collagenous matrix, the second collagenous matrix being controlled to have a second crosslinking density, the first crosslinking density being controlled to be different than the second cross-linking density, wherein at least one of the first and second portions defines a closed internal reservoir configured to contain at least one of a dye, a pigment and a therapeutic agent.

41. **(Previously Presented)** The post-biopsy cavity treatment implant of claim 40, wherein the second portion swells faster than the first portion when the implant is implanted.

42. **(Previously Presented)** The post-biopsy cavity treatment implant of claim 40, wherein the second portion swells to a greater extent than the first portion when the implant is implanted.

43. **(Original)** The post-biopsy cavity treatment implant of claim 40, wherein at least one of the first and second collagenous matrices includes a radiopaque material disposed therein.

44. **(Original)** The post-biopsy cavity treatment implant of claim 40, wherein at least one of the first and second collagenous matrices includes a radioactive material disposed therein.

45. **(Original)** The post-biopsy cavity treatment device of claim 40, wherein at least one of the first and second collagenous matrices includes a paramagnetic material disposed therein.

46. **(Original)** The post-biopsy cavity treatment implant of claim 40, wherein at least one of the first and second collagenous matrices includes a dye disposed therein.

47. **(Original)** The post-biopsy cavity treatment implant of claim 40, wherein at least one of the first and second collagenous matrices includes a pigment disposed therein.

48. **(Original)** The post-biopsy cavity treatment implant of claim 40, wherein at least one of the first and second collagenous matrices includes a contrast media disposed therein.

49. **(Original)** The post-biopsy cavity treatment implant of claim 40, wherein at least one of the first and second collagenous matrices includes a therapeutic agent disposed therein.

50. **(Original)** The post-biopsy cavity treatment implant of claim 40, wherein at least one of the first and second portions is biodegradable.

51. **(Original)** The post-biopsy cavity treatment implant of claim 40, wherein at least one of the first and second portions includes collagen.

52. **(Original)** The post-biopsy cavity treatment implant of claim 40, wherein the first and second portions include at least one of a polylactide (PLA), a polyglycolide (PGA), a

poly(lactide-co-glycolide) (PLGA), a polyglyconate, a polyanhydride, PEG, cellulose, a gelatin, a lipids, a polysaccharide, a starches and a polyorthoesters.

53. **(Original)** The post-biopsy cavity treatment implant of claim 40, wherein the first and second portions are configured so as to form a laminar structure.

54. **(Original)** The post-biopsy cavity treatment implant of claim 40, wherein the first portion defines a first surface and wherein the second portion defines a second surface that faces the first surface to define an interface between the first and second portions.

55. **(Previously Presented)** The post-biopsy cavity treatment implant of claim 54, wherein the interface is visualizable under ultrasound when the post-biopsy cavity treatment implant is implanted.

56. **(Original)** The post-biopsy cavity treatment implant of claim 40, wherein at least the first portion includes a plurality of fibers.

57. **(Original)** The post-biopsy cavity treatment implant of claim 40, wherein the first portion forms an inner core and wherein the second portion forms an outer shell disposed at least partially around the first portion.

58. **(Canceled)**

59. **(Previously Presented)** The post-biopsy cavity treatment inplant of claim 40, wherein the internal reservoir is configured to deliver the at least one of dye, pigment and therapeutic agent through elution when the implant is implanted.

60. **(Previously Presented)** The post-biopsy cavity treatment implant of claim 40, wherein the internal reservoir is configured to deliver the at least one of dye, pigment and

therapeutic agent at a first rate when the reservoir is breached and at a second rate that is lower than the first rate when the reservoir is not breached.

61. **(Original)** The post-biopsy cavity treatment implant of claim 40, further including a third portion disposed between the first and second portions, the third portion being radiopaque.

62. **(Original)** The post-biopsy cavity treatment implant of claim 61, wherein the third portion includes a metal.

63. **(Canceled)**

64. **(Previously Presented)** The post-biopsy cavity treatment implant of claim 40, wherein the first and second portions include collagen and wherein the crosslinking density of the at least one of the first and second portions is controlled through adding a selected amount of a bifunctional reagent to the collagen.

65. **(Original)** The post-biopsy cavity treatment implant of claim 64, wherein the bifunctional reagent includes at least one of a aldehyde and a cyanamide.

66. **(Original)** The post-biopsy cavity treatment implant of claim 65, wherein the aldehyde includes a glutaraldehyde.

67. **(Original)** The post-biopsy cavity treatment implant of claim 40, wherein the first and second portions include collagen and wherein a crosslinking density of the first and second portions is controlled by an application of energy to the collagen.

68. **(Original)** The post-biopsy cavity treatment implant of claim 67, wherein the application of energy includes at least one of dehydrothermal processing, exposure to UV light and radiation.

69. **(Original)** The post-biopsy cavity treatment implant of claim 40, wherein the first and second portions include collagen and wherein the crosslinking density of at least one of the first and second portions is controlled by a combination of dehydrothermal processing and exposure to cyanamide.

70-73. **(Canceled)**

74. **(Currently Amended)** A post-biopsy cavity treatment implant, comprising:

a first portion including a first porous matrix defining a first controlled pore architecture;

a second portion coupled to the first portion, the second portion including a second porous matrix defining a second controlled pore architecture that is different from the first controlled pore architecture to cause the second portion to swell in a different manner than the first portion when the post-biopsy cavity treatment implant is implanted, at least one of the first and second portions including collagen and at least one of the first and second portions **defining a closed internal reservoir and** including at least one of a paramagnetic material, a dye and a pigment disposed **within the closed internal reservoir** ~~therein~~, at least one of the first and second portions includes a radioactive material disposed therein, and

a third portion including a third porous matrix defining a third controlled pore architecture, the first, second and third portions collectively defining a predetermined pore density gradient.

75. **(Previously Presented)** The post-biopsy cavity treatment implant of claim 74, wherein the second portion swells faster than the first portion when the implant is implanted.

76. **(Previously Presented)** The post-biopsy cavity treatment implant of claim 74, wherein the second portion swells to a greater extent than the first portion when the implant is implanted.

77. **(Previously Presented)** The post-biopsy cavity treatment implant of claim 74, wherein the first controlled pore architecture differs from the second controlled pore architecture with respect to at least one of: pore density, pore shape, pore orientation and pore dimensions.

78. **(Previously Presented)** The post-biopsy cavity treatment implant of claim 74, wherein at least one of the first and second portions includes a radiopaque material disposed therein.

79-82. **(Canceled)**

83. **(Previously Presented)** The post-biopsy cavity treatment implant of claim 74, wherein at least one of the first and second portions includes a contrast media disposed therein.

84. **(Previously Presented)** The post-biopsy cavity treatment implant of claim 74, wherein at least one of the first and second portions includes a therapeutic agent disposed therein.

85. **(Previously Presented)** The post-biopsy cavity treatment implant of claim 74, wherein at least one of the first and second portions is biodegradable.

86. **(Canceled)**

87. **(Previously Presented)** The post-biopsy cavity treatment implant of claim 74, wherein the first and second portions include at least one of a polylactide (PLA), a polyglycolide (PGA), a poly(lactide-co-glycolide) (PLGA), a polyglyconate, a polyanhydride, PEG, cellulose, a gelatin, a lipids, a polysaccharide, a starches and a polyorthoesters.

88. **(Previously Presented)** The post-biopsy cavity treatment implant of claim 74, wherein the first and second portions are configured so as to form a laminar structure.

89. **(Previously Presented)** The post-biopsy cavity treatment implant of claim 74, wherein the first portion defines a first surface and wherein the second portion defines a second surface that faces the first surface to define an interface between the first and second portions.

90. **(Previously Presented)** The post-biopsy cavity treatment implant of claim 89, wherein the interface is visualizable under ultrasound when the post-biopsy cavity treatment implant is implanted.

91. **(Previously Presented)** The post-biopsy cavity treatment implant of claim 74, wherein at least the first portion includes a plurality of fibers.

92. **(Previously Presented)** The post-biopsy cavity treatment implant of claim 74, wherein the first portion forms an inner core and wherein the second portion forms an outer shell disposed at least partially around the first portion.

93-95. **(Canceled)**

96. **(Previously Presented)** The post-biopsy cavity treatment implant of claim 74, wherein the third portion being radiopaque.

97. **(Previously Presented)** The post-biopsy cavity treatment implant of claim 96, wherein the third portion includes a metal.

98-101. **(Canceled)**

102. **(Previously Presented)** The post-biopsy cavity treatment implant of claim 74, wherein a crosslinking density of the first and second portions is controlled by an application of energy to the collagen.

103. **(Previously Presented)** The post-biopsy cavity treatment implant of claim 102, wherein the application of energy includes at least one of dehydrothermal processing, exposure to UV light and radiation.

104-136. **(Canceled)**

137. **(Currently Amended)** A post-biopsy cavity treatment implant, comprising:

a first portion comprising a first collagenous matrix, the first collagenous matrix being controlled to have a first crosslinking density;

a second portion in contact with the first portion, the second portion comprising a second collagenous matrix, the second collagenous matrix being controlled to have a second crosslinking density, the first crosslinking density being controlled to be different than the second cross-linking density, **at least one of the first and second portions including a closed internal reservoir configured to contain at least one of a dye, a pigment and a therapeutic agent** and

a third portion including a third porous matrix defining a controlled pore architecture, the first, second and third portions collectively defining a predetermined pore density gradient.

138. **(Previously Presented)** The post-biopsy cavity treatment implant of claim 137, wherein the second portion swells faster than the first portion when the implant is implanted.

139. **(Previously Presented)** The post-biopsy cavity treatment implant of claim 137, wherein the second portion swells to a greater extent than the first portion when the implant is implanted.

140. **(Previously Presented)** The post-biopsy cavity treatment implant of claim 137, wherein at least one of the first and second collagenous matrices includes a radiopaque material disposed therein.

141. **(Previously Presented)** The post-biopsy cavity treatment implant of claim 137, wherein at least one of the first and second collagenous matrices includes a radioactive material disposed therein.

142. **(Previously Presented)** The post-biopsy cavity treatment device of claim 137, wherein at least one of the first and second collagenous matrices includes a paramagnetic material disposed therein.

143. **(Previously Presented)** The post-biopsy cavity treatment implant of claim 137, wherein at least one of the first and second collagenous matrices includes a dye disposed therein.

144. **(Previously Presented)** The post-biopsy cavity treatment implant of claim 137, wherein at least one of the first and second collagenous matrices includes a pigment disposed therein.

145. **(Previously Presented)** The post-biopsy cavity treatment implant of claim 137, wherein at least one of the first and second collagenous matrices includes a contrast media disposed therein.

146. **(Previously Presented)** The post-biopsy cavity treatment implant of claim 137, wherein at least one of the first and second collagenous matrices includes a therapeutic agent disposed therein.

147. **(Previously Presented)** The post-biopsy cavity treatment implant of claim 137, wherein at least one of the first and second portions is biodegradable.

148. **(Previously Presented)** The post-biopsy cavity treatment implant of claim 137, wherein at least one of the first and second portions includes collagen.

149. **(Previously Presented)** The post-biopsy cavity treatment implant of claim 137, wherein the first and second portions include at least one of a polylactide (PLA), a polyglycolide (PGA), a poly(lactide-co-glycolide) (PLGA), a polyglyconate, a polyanhydride, PEG, cellulose, a gelatin, a lipids, a polysaccharide, a starches and a polyorthoesters.

150. **(Previously Presented)** The post-biopsy cavity treatment implant of claim 137, wherein the first and second portions are configured so as to form a laminar structure.

151. **(Previously Presented)** The post-biopsy cavity treatment implant of claim 137, wherein the first portion defines a first surface and wherein the second portion defines a second surface that faces the first surface to define an interface between the first and second portions.

152. **(Previously Presented)** The post-biopsy cavity treatment implant of claim 151, wherein the interface is visualizable under ultrasound when the post-biopsy cavity treatment implant is implanted.

153. **(Previously Presented)** The post-biopsy cavity treatment implant of claim 137, wherein at least the first portion includes a plurality of fibers.

154. **(Previously Presented)** The post-biopsy cavity treatment implant of claim 137, wherein the first portion forms an inner core and wherein the second portion forms an outer shell disposed at least partially around the first portion.

155. **(Canceled)**

156. **(Currently Amended)** The post-biopsy cavity treatment implant of **claim 137** ~~**claim 155**~~, wherein the internal reservoir is configured to deliver the at least one of dye, pigment and therapeutic agent through elution when the implant is implanted.

157. **(Currently Amended)** The post-biopsy cavity treatment implant of **claim 137** ~~**claim 155**~~, wherein the internal reservoir is configured to deliver the at least one of dye, pigment and therapeutic agent at a first rate when the reservoir is breached and at a second rate that is lower than the first rate when the reservoir is not breached.

158. **(Previously Presented)** The post-biopsy cavity treatment implant of claim 137, wherein the third portion is disposed between the first and second portions and is radiopaque.

159. **(Previously Presented)** The post-biopsy cavity treatment implant of claim 158, wherein the third portion includes a metal.

160. **(Previously Presented)** The post-biopsy cavity treatment implant of claim 137, wherein the first and second portions include collagen and wherein the crosslinking density of the at least one of the first and second portions is controlled through adding a selected amount of a bifunctional reagent to the collagen.

161. **(Previously Presented)** The post-biopsy cavity treatment implant of claim 160, wherein the bifunctional reagent includes at least one of a aldehyde and a cyanamide.

162. **(Previously Presented)** The post-biopsy cavity treatment implant of claim 161, wherein the aldehyde includes a glutaraldehyde.

163. **(Previously Presented)** The post-biopsy cavity treatment implant of claim 137, wherein the first and second portions include collagen and wherein a crosslinking density of the first and second portions is controlled by an application of energy to the collagen.

164. **(Previously Presented)** The post-biopsy cavity treatment implant of claim 163, wherein the application of energy includes at least one of dehydrothermal processing, exposure to UV light and radiation.

165. **(Previously Presented)** The post-biopsy cavity treatment implant of claim 137, wherein the first and second portions include collagen and wherein the crosslinking density of at least one of the first and second portions is controlled by a combination of dehydrothermal processing and exposure to cyanamide.

166-168. **(Canceled)**

169. **(Currently Amended)** A post-biopsy cavity treatment implant, comprising:

a first portion including a first porous matrix defining a first controlled pore architecture;

a second portion coupled to the first portion, the second portion including a second porous matrix defining a second controlled pore architecture that is different from the first controlled pore architecture to cause the second portion to swell in a different manner than the first portion when the post-biopsy cavity treatment implant is implanted, the second portion being configured to have a second crosslinking density and the first portion being configured to have a first crosslinking density that is greater than the second crosslinking density, **at least one of the first and second portions including a closed internal reservoir configured to contain at least one of a dye, a pigment and a therapeutic agent** and

a third portion including a third porous matrix defining a third controlled pore architecture, the first, second and third portions collectively defining a predetermined pore density gradient.

170. **(Currently Amended)** A post-biopsy cavity treatment implant, comprising:

a first portion including a first porous matrix defining a first controlled pore architecture;

a second portion coupled to the first portion, the second portion including a second porous matrix defining a second controlled pore architecture that is different from the first controlled pore architecture to cause the second portion to swell in a different manner than the first portion when the post-biopsy cavity treatment implant is implanted, the first and second portions including collagen and a crosslinking density of at least one of the first and second portions being controlled through adding a selected amount of a bifunctional reagent to the

collagen, **at least one of the first and second portions including a closed internal reservoir configured to contain at least one of a dye, a pigment and a therapeutic agent** and

a third portion including a third porous matrix defining a third controlled pore architecture, the first, second and third portions collectively defining a predetermined pore density gradient.

171. **(Previously Presented)** The post-biopsy cavity treatment implant of claim 170, wherein the bifunctional reagent includes at least one of a aldehyde and a cyanamide.

172. **(Previously Presented)** The post-biopsy cavity treatment implant of claim 171, wherein the aldehyde includes a glutaraldehyde.

173. **(Currently Amended)** A post-biopsy cavity treatment implant, comprising:

a first portion including a first porous matrix defining a first controlled pore architecture;

a second portion coupled to the first portion, the second portion including a second porous matrix defining a second controlled pore architecture that is different from the first controlled pore architecture to cause the second portion to swell in a different manner than the first portion when the post-biopsy cavity treatment implant is implanted, the first and second portions including collagen and a crosslinking density of at least one of the first and second portions being controlled by a combination of dehydrothermal processing and exposure to cyanamide, **at least one of the first and second portions including a closed internal reservoir configured to contain at least one of a dye, a pigment and a therapeutic agent** and

a third portion including a third porous matrix defining a third controlled pore architecture, the first, second and third portions collectively defining a predetermined pore density gradient.

174. **(Previously Presented)** A post-biopsy cavity treatment implant, comprising:

a first portion having a first cross linking density and including a first porous matrix defining a first controlled pore architecture, and

a second portion coupled to the first portion, the second portion having a second crosslinking density and including a second porous matrix defining a second controlled pore architecture, the second controlled pore architecture being different from the first controlled pore architecture to cause the second portion to swell in a different manner than the first portion when the post-biopsy cavity treatment implant is implanted, at least one of the first and second portions defining a closed internal reservoir configured to contain at least one of a dye, a pigment and a therapeutic agent, wherein the first portion is configured to have a first crosslinking density that is greater than the second crosslinking density.

175. **(Previously Presented)** The post-biopsy cavity treatment implant of claim 174, wherein the second portion is configured to swell to a greater degree than the first portion when the implant is implanted.